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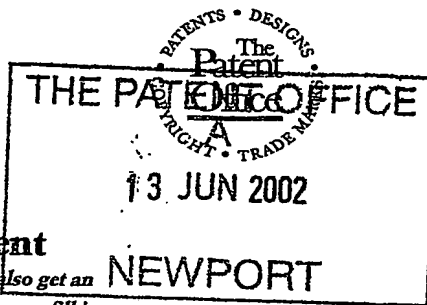
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M. C. Enk

Dated 14 July 2003

14 July 2003



13JUN02 E76429-8 D02605/  
P01/7700-0-00-0213547.3

# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road  
Newport  
South Wales  
NP10 8QQ

1. Your reference

P1081

2. Patent application number

(The Patent Office will fill in this part)

0213547.3

13 JUN 2002

3. Full name, address and postcode of the or of each applicant (underline all surnames)

778680001

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

AMULET ELECTRONICS LIMITED  
NANNINGTON LODGE  
OLD EXETER STREET  
CHUDLEIGH  
DEVON  
TQ13 0JX

4. Title of the invention

DESK ATTACHMENT

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

CRASKE & Co.  
PATENT LAW CHAMBERS  
15 QUEENS TERRACE  
EXETER  
EX4 4HJ

Patents ADP number (if you know it)

79 71 004 ✓

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number  
(if you know it)

Date of filing  
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing  
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

Yes.

a) any applicant named in part 3 is not an inventor, or

b) there is an inventor who is not named as an applicant, or

c) any named applicant is a corporate body.

See note (d))

**Patents Form 1/77**

9. Enter the number of sheets for any of the following items you are filing with this form.  
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Continuation sheets of this form

Description

Claim(s)

Abstract

Drawing(s)

1+1

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination and search (*Patents Form 9/77*)

Request for substantive examination (*Patents Form 10/77*)

Any other documents  
(please specify)

11.

I/We request the grant of a patent on the basis of this application.

Signature

*Col*

Date 12-06-02

12. Name and daytime telephone number of person to contact in the United Kingdom

Mr SA CRABKE 01392 413 479

**Warning**

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

**Notes**

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Amulet Electronics Limited

## DESK ATTACHMENT

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### TECHNICAL FIELD OF THE INVENTION

This invention relates to a desk attachment for managing the cabling infrastructure associated with a computer system.

### BACKGROUND

In dealing rooms trading in commodities or stocks and shares a typical dealing desk may be associated with several computers which are each connected to desktop user interface devices such as keyboards, mice and monitors as well as being linked to remote data sources to receive information by analogue or digital video, audio etc. In order to simplify the complex interconnections between the numerous cables it has been proposed to provide each desk with electronic management hub known as a SmartLoom (Amulet registered trade mark) which actively manages the interconnections between the various devices. For convenience, the computers may be mounted on a trolley each coupled to the hub device via a special mass connector, allowing them to be relocated to another desk with minimum effort. Further details can be found at

[www.amulethotkey.com/desk\\_mngt/SmartLoom/smartloom.htm](http://www.amulethotkey.com/desk_mngt/SmartLoom/smartloom.htm)

The present invention seeks to provide a new and inventive form of cable management system which offers an entry-level system of lower complexity than the SmartLoom system whilst at the same time offering a simple and flexible upgrade path which allows complex installations to be managed just as effectively as the existing system.

#### SUMMARY OF THE INVENTION

The present invention provides a desk attachment which includes:

- a base unit including a communication bus having a communication port for connection to at least one remote signal source;
- and
- a plurality of user modules for attachment to the base unit such that they are electrically connected with the bus, each module having a PC port for connection with a local computer and at least one peripheral port for connection with a user interface device, said ports being arranged such that a computer on the PC port is operably connected to the or each peripheral port and the bus.

#### BRIEF DESCRIPTION OF THE DRAWINGS

The following description and the accompanying drawings referred to therein are included by way of non-limiting example in order to illustrate how the invention may be put into practice. In the drawings:

Figure 1 is a general view of a cable management device

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attached to a desk in accordance with the invention; and

Figure 2 is a schematic diagram of the device including detail of a single user module.

#### DETAILED DESCRIPTION OF THE DRAWINGS

The cable management device which is shown in the drawings includes a channel-shaped chassis 1 forming a base unit which can be attached to a dealing desk *D* in the area of the cable tray by means of screws or bolts, although other mounting positions and means of attachment are possible. The chassis may be formed inexpensively from sheet metal and includes a base wall 2 with upstanding front and rear walls 3 and 4. A duct 5 is formed at the junction between the base and rear walls 2 and 4 to contain a multi-wire bus 100 (**Fig. 2**). The bus may typically carry multiple signal channels and an optional power bus and is provided with a multi-way connector 6 at one end of the channel 5 for connection via an umbilical cable 7 to a remote user pod (not shown). By way of example, the signals carried to and from the user pod may include analogue and/or digital video, audio (mono or stereo) and data sent via USB, RS232 or other serial signalling protocols, parallel data, local network protocols etc. Access to the bus is provided via a plurality of bus connectors 10 (**Fig. 2**), typically three or four, which are mounted in spaced positions along the duct 5 such that a bank of identical user modules 20 can be mounted in the chassis each connected to a respective bus connector 10.

Each user module 20 includes a housing 21 which positively locates within

the chassis 1. Each module has a PC port 22 and a number of peripheral ports 23 are mounted on the exposed upper face of the module. The PC port 22 is aligned with an aperture in the front wall 3 of the chassis 1 to receive a mass connector 26 which leads via a cable 27 to a workstation computer 28. A number of such computers (typically up to four) can be mounted on a trolley *T* beneath the desk *D*. Desktop peripheral user devices can be plugged into the appropriate ports 23, e.g. PS/2 keyboard and mouse, DVI video monitor, speakers etc.

As indicated in **Fig. 2**, the user module provides the necessary internal connections between the PC port 22, the peripheral devices and the bus 100. In a basic entry-level system the connections may be passive, although more complex forms of the device may incorporate electronic modules to provide active signal handling.

The modules 20 can be added or removed as required according to the number of computers being used.

It will thus be appreciated that the device provides a low cost flexible modular system which is easily adapted to accommodate future developments in technology. Installation is simple and the system is easily reconfigurable whilst providing a highly reliable and effective cable management solution.

Although the example of a dealing room is specifically described herein it will be appreciated that the cable management system can be used in any situation where two or more computer workstations are used in close proximity connected to a remote location.

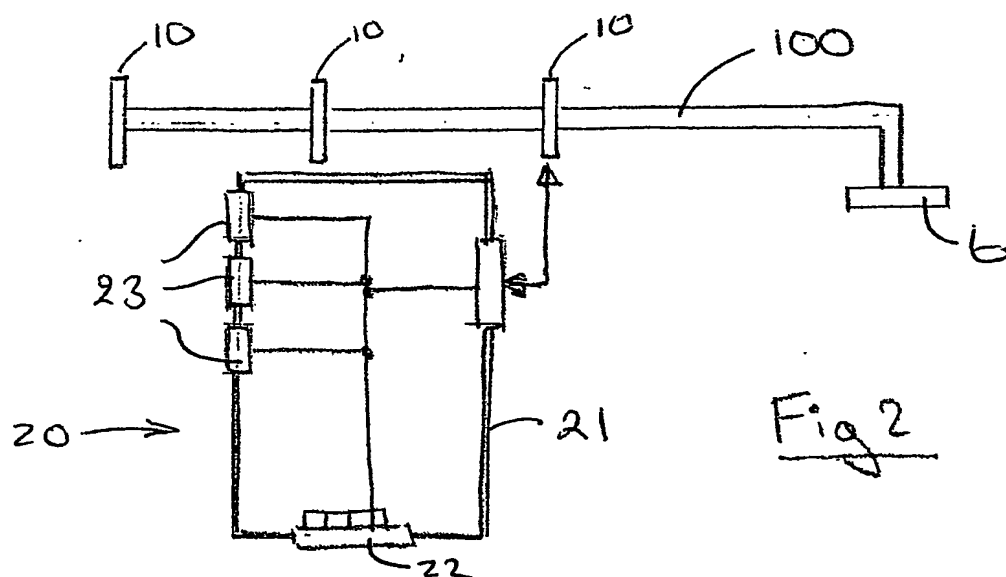
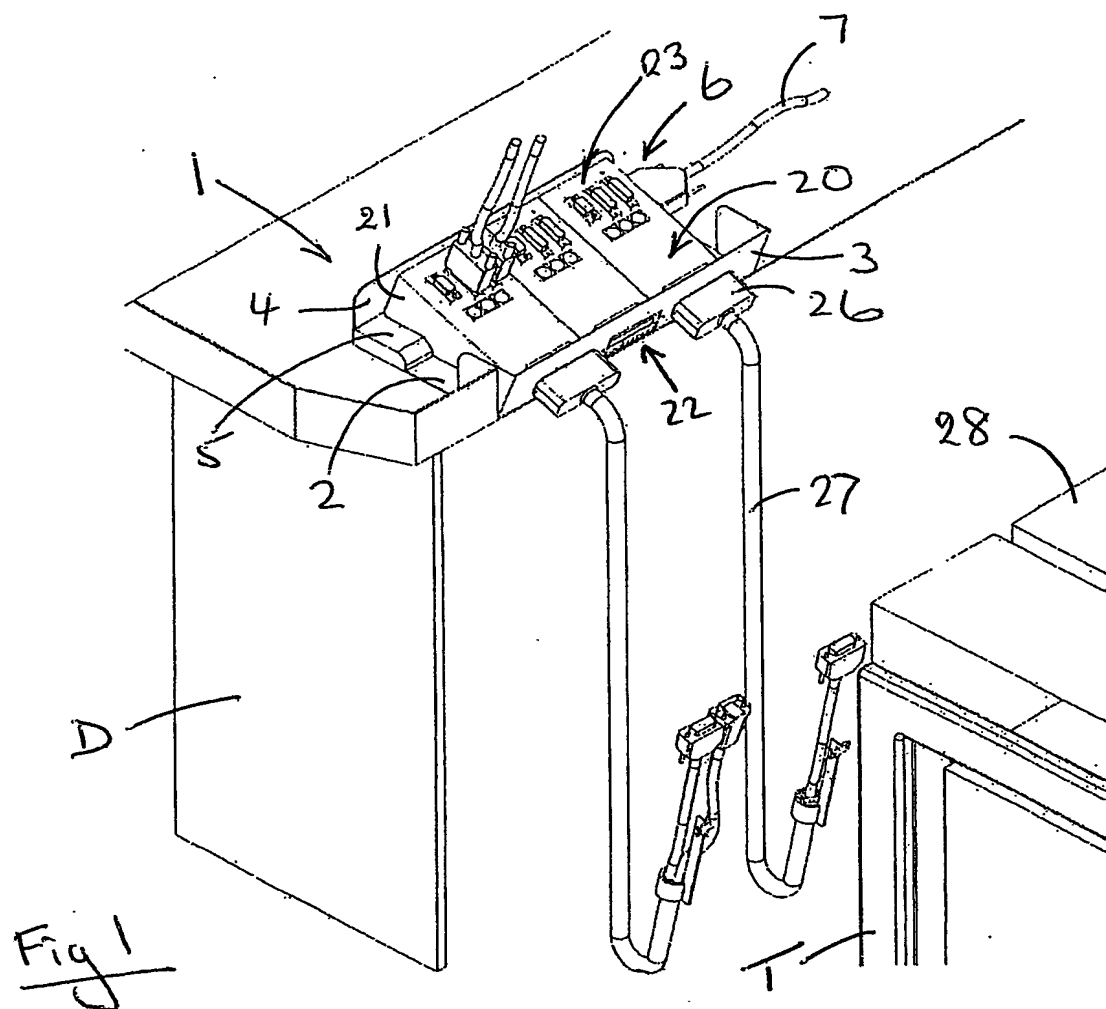
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It will be appreciated that the features disclosed herein may be present in any feasible combination. Whilst the above description lays emphasis on those areas which, in combination, are believed to be new, protection is claimed for any inventive combination of the features disclosed herein.

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